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Shuck et al.

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- (54) **NEGATIVE PRESSURE MOTOR SEALING**
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- (52) **U.S. Cl.**
CPC **H02K 9/08** (2013.01); **H02K 5/12** (2013.01); **H02K 5/22** (2013.01); **H02K 9/12** (2013.01); **H02K 9/19** (2013.01)
- (58) **Field of Classification Search**
CPC H02K 9/08; H02K 5/22
See application file for complete search history.

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- (57) **ABSTRACT**
A system includes an electric motor including a housing enclosing a substantially-sealed internal environment, a pump including an inlet connected to the substantially-sealed internal environment of the electric motor via a first conduit, and a fluid supply storing a makeup fluid, the fluid supply including an outlet connected to the substantially-sealed internal environment of the electric motor via a second conduit. The pump is configured to create a negative pressure within the substantially-sealed internal environment of the electric motor to mitigate potential contamination of an external environment of the electric motor with the makeup fluid.

20 Claims, 2 Drawing Sheets

